

WHAT IS CLAIMED IS:

1. An oblique contact double row ball bearing comprising double rows of balls axially interposed in between raceways of inner and outer rings, wherein

5 an inner clearance between the balls in one of the rows and the raceway in which the balls are rolled and an inner clearance between the balls in the other row and the raceway in which the balls are rolled, are different to each other.

10 2. The oblique contact double row ball bearing according to Claim 1, wherein the inner clearance is a radial clearance.

3. The oblique contact double row ball bearing according to Claim 1, wherein pitch circle diameters of the both rows are different to each other.

15 4. The oblique contact double row ball bearing according to Claim 1, wherein a contact angle of the ball in one of the rows and a contact angle of the ball in the other row have a same direction.

20 5. A method of imparting a preload to an oblique contact double row ball bearing in which double rows of balls are arranged in between raceways of inner and outer rings with inner clearances, wherein

25 the inner clearance between the balls in one of the rows and the raceway of the inner and outer rings corresponding to the one of the rows in which the balls are rolled, and the inner clearance between the balls in the other row and the raceway of the inner and outer rings corresponding to the other row in which the balls are rolled are set to be different to each other, and then

30 a load is given to the inner and outer rings so that the inner clearances are sequentially reduced in order to impart the preload to the inner and outer rings.

6. The method of imparting the preload to the oblique contact double row ball bearing according to Claim 5, wherein

the inner clearance is a radial clearance, and  
a thrust load is given to the inner and outer rings in  
order to impart the preload.

7. The method of imparting the preload to the oblique contact  
5 double row ball bearing according to Claim 5, wherein  
pitch circle diameters of the double rows are different  
to each other.

8. The method of imparting the preload to the oblique contact  
double row ball bearing according to Claim 5, wherein  
10 a contact angle of the ball in one of the rows and a contact  
angle of the ball in the other row have a same direction.